

In the Specification

The following is a clean version of the amended sections of the specification. A version with markings to show changes made to the specification is set forth in the Appendix of this amendment. Please substitute the following paragraph for the existing paragraph on page 11 lines 3-4.

A1 (d) Each node receives an explicit acknowledgment 210 to its transmitted schedule from each collocated neighbor in a LAN or wired link.

Please substitute the following paragraph for the existing paragraph on page 18 line 17 through page 19 line 3.

A2
cont As shown in Figure 3, when node Y (not shown) receives 340 a hello from a collocated neighbor X (not shown) in which the sequence number used by the sending node X (not shown) is smaller than the sequence number stored at the receiving node Y for the sending node, 340, then node Y sends a hello-response packet to node X specifying the sequence number and age locally available at node Y for its collocated neighbor X, 350. In turn, when node X receives through 324, 334, a hello-response packet addressed to it, 352, it increases its sequence number to equal the maximum of its current sequence number and one plus the sequence number received in the hello-response packet from node Y, 354; after that, node X sends a hello with the resulting sequence number, 356. If a hello-response is not received, 352, node X, and an ACK to CONET packet is received, 358, node X marks node Y as having sent the ACK 360. If an ACK is not received, 358, and if more data slots are available to receive appropriate CONETS packets, 362, node X determines whether map packets are to be received. Taking these steps ensures

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that node X uses sequence numbers for its hello and schedule packets that all its
collocated neighbors can assume to be the most recent from node X.

Please substitute the following paragraph for the existing paragraph on page
22 line 28 through page 23 line 9.

A3
Consider the wireless network shown in Figure 1. Referring to Figure 7, for
simplicity, the system is assumed to have three orthogonal channels, Ch1 - Ch3,
and a frame is shown 30 as consisting of one control slot, s0, and 10 data slots, s1-
s10. Figure 7 shows the scheduling information available at IR 180, is labeled node
A. As the figure shows, node A has an established ASL with node D in channel 1
lasting for slots 1 and 2. By means of CONETS schedule packets exchanged with its
collocated neighbors IR 100 and IR 140, which are labeled B and C, respectively,
node A also knows that there is an established ASL from node B to IR 160, which is
labeled node E, on channel 2 during slots 1 through 3, an established ASL from
node C to IR 130, labeled node F, in channel 3 during slots 4 to 8, and a proposed
ASL from node C to IR 110, labeled node G, over channel 2 during slots 9 and 10.

Please substitute the following paragraph for the existing paragraph on page
9, line 19 through page 10 line 15.

A4
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In one preferred embodiment of the present invention, CONETS is used in
combination with Network Established Transmission Scheduling (NETS) and Robust
environmentally Aware Link and MAC (REALM), which are described in commonly
assigned U.S. Patent Applications No. 09/418,899, filed October 15, 1999 and No.
09/248,738 filed February 10, 1999, assigned to the Assignee of the present

invention and incorporated herein by reference. In this embodiment, REALM is used to determine when NETS schedule packets are sent periodically by each node, depending on its two-hop neighborhood. According to REALM, time is divided into frames of a known number of slots, and each frame is assigned a number that is known throughout the network. As illustrated in Figure 2, the first few slots of each frame 200 are dedicated to the transmission of NETS schedule packets, and such slots are called control slots 202. The rest of the frame 200 is used for the transmission of data; the slots in the remaining of the frame 200 are called data slots 204. CONETS packets are exchanged over a wired link or a LAN by collocated nodes during the time of the frame 200 assigned for the transmission of data over the wireless channels. The transmission of CONETS schedule packets 206 is accomplished using a channel access protocol suitable for the transmission media used to interconnect the collocated nodes; for example, if the LAN interconnecting the collocated nodes is an Ethernet, carrier sense multiple access with collision detection (CSMA/CD) is used for the transmission of CONETS packets over it. Figure 2 illustrates the case in which two of the collocated IRs in LAN 30 of Figure 1 send schedule packets 206 and one of them sends a hello packet 208 during a given frame; the figure also illustrates the fact that CONETS packets are not transmitted synchronously with respect to the frame assumed for the transmission of packets over the wireless channel available.

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Please substitute the following paragraph for the existing paragraph on page 22, lines 3-6.

A5
Etiquette Rule 11: A node can announce a new ASL to or from the node itself to its non-collocated neighbors only after all its collocated neighbors have agreed to include the ASL in the common transmission schedule maintained by all collocated nodes.

Please substitute the following paragraph for the existing paragraph on page 7, lines 22-30.

A6
Figure 1 illustrates aspects on an exemplary ad hoc network with collocated nodes according to an embodiment of the invention. The ad hoc network depicted in the figure consists of a number of subnetworks 30, 40, 50, which provide an extension of the Internet through a number of internet radios (IRs) 100, 110, 120, 130, 140, 150, 160, 170, 180. Each IR 100-180 is a wireless router with an IP address and a MAC address. The ad hoc network attaches to the Internet 900 via an access point, called "AirHead," which comprises IR 110 interconnected to an Internet router 200 through local area network 40.

IN THE CLAIMS

Presented below are the claims, including amended claims and claims not amended, in a clean, unmarked format. A version with markings to show changes made to the claims is set forth in the Appendix of this amendment. Claims 1-22 have been amended. Claim 23 has been added. For the convenience of the Examiner, all of the pending claims are set forth below.

1. (Amended) A method, comprising:

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